

## ABSTRACT

An X-ray CT apparatus according to the present invention is designed to greatly shorten the time taken for image processings in irradiating a cone beam X-ray to the whole jaw including a dental arc and to a local region such as a region around a tooth and a jaw joint and obtaining a panoramic image showing conditions of a dental row, teethridge, and tissue and bone. The imaging apparatus includes a reverse L-shaped fixing column, a rotative arm suspended at the end thereof, and X-ray generating device and a two-dimensional X-ray detecting device oppositely fixed to the ends of rotative arm respectively. The rotative arm is horizontally supported in the rotatable state via a dual rotation system with respect to the column. An object to be examined sits on a chair which is movable upward and downward, and an examining region is adjusted to a height of imaging center of the imaging apparatus. The object's head is fixed by a fine-adjustable head holder. Imaging is performed so that a distance between rotation centers of the two rotation systems substantially coincides with the object's dental arc.